

## **TITLE: A METHOD FOR COLOR CORRECTION**

### **Abstract of The Disclosure**

A method for color correction is provided. In this method, a plurality of groups of gray levels and luminance of light source of display device are respectively selected by color measurement system. The selected data of each color light are respectively calculated to obtain fitting functions which can fit the gray level data of each interval. The fitting luminance of the gray levels in interval is obtained by the fitting function and formed into a lookup table. Then in order to correspond a gamma curve of normalized gray data of image to a predetermined target curve, the two gamma curves are first taken to logarithmic calculation and the modified gray signals are obtained from the lookup table, then the modified gray signals are transmitted out for providing the display device to express the gray distribution state. The method for color correction is applicable to various display devices, especially liquid crystal display device.

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